

# Notice of Allowability

Application No.

10/731,069

Examiner

Tilahun B. Gesesse

Applicant(s)

PREMAKANTHAN ET AL.

Art Unit

2618

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/18/06.
2. ☒ The allowed claim(s) is/are 1-6 and 8-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Tilahun B Gesesse  
Primary Examiner  
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### DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Adam D. Sheehan on January 8, 2007.

2. The application has been amended as follows:

In claim 1, line 12, after the term power level---, the controller comprising: an error squaring unit; an adaptive filter coefficients calculation unit; and a adaptive filter having multiple taps coupled to the adaptive filter coefficient calculation unit; wherein the ramp of the amplified signal is compared to the predetermined ramp producing an error term; wherein the adaptive filter coefficient calculation unit uses the error term to calculate and adjust one or more of the multiple taps of the adaptive filter; wherein an output of the adaptive filter is fed into a loop filter that accumulates the output signal. --- has been added.

Claim 7, has been deleted.

Claim 8, line 1, after recited claim "7" has been deleted and -1—has been inserted.

Claim 9, line 1, after recited in claim "7" has been deleted and -1—has been inserted.

Claim 10, line 1, after recited claim "7" has been deleted and -1—has been inserted.

Claim 11, line 1, after recited claim "7" has been deleted and -1—has been inserted.

Claim 12, line 1, after recited claim "7" has been deleted and -1—has been inserted.

Claim 13, line 1, after recited claim "7" has been deleted and -1—has been inserted.

3. The following is an examiner's statement of reasons for allowance: the prior art Epperson et al. teaches a power control system comprising: a gain control stage configured to amplify an input signal to produce an amplified signal (0011, lines 1-9, 0031, lines 1-11, See Parts 60, 62, 64 of Figure 2). Epperson teaches a power detector coupled to an output of the gain control stage, the power detector to detect a ramp of the amplified signal and to provide an indication of the ramp (0011, lines 1-9, 0035, lines 1-14, Figure 2, 0012, lines 1-11, 0014). Epperson teaches a controller coupled to the power detector and the gain control stage (See Figure 1), the controller configured to adjust a supply or control voltage to the gain control stage responsive to the indication of the ramp to cause the supply or control voltage to range as the ramp varies from a predetermined ramp (0026, 0031), wherein the predetermined ramp comprises a desired waveform wave modified by a required power level (0026, 0031, 0012, 0055).

On the other hand, the present applicant specifically teaches an adaptive filter coefficients calculation unit; a adaptive filter having multiple taps coupled to the adaptive filter coefficient calculation unit, the ramp of the amplified signal is compared to the predetermined ramp producing an error term; the adaptive filter coefficient calculation unit uses the error term to calculate and adjust one or more of the multiple taps of the adaptive filter. These limitation, in conjunction with all other limitations, has not been disclosed, taught or made obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### **Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899.

The Central FAX Number is 571-273-8300. For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TG

January 4, 2006

  
TILAHUN GESESSE  
PRIMARY EXAMINER